

bar rotatably attached to and abutting the inner side of the first gear and a second connecting bar rotatably attached to and abutting the outer side of the first gear; a second gear in opposite rotational communication with the first gear and weighted along an outer edge and rotatably attached to and abutting the first connecting bar and the second connecting bar; and a first drive means for translating centrifugal motion of the first gear to ~~unidirectional~~ linear motion.

AMENDMENTS IN CLAIMS

Amend the claims as follows:

1. A device for conversion of centrifugal force to linear force and motion, said device comprising:
 - a first gear fixed to a first arm and having a first connecting bar rotatably attached to and abutting the inner side of said first gear and a second connecting bar rotatably attached to and abutting the outer side of said first gear;
 - a second gear in opposite rotational communication with said first gear and weighted along an outer edge and is rotatably attached to and abutting said first connecting bar and said second connecting bar; and
 - a first drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.
6. A device as in claim 1, further comprising a second drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.
7. A device for conversion of centrifugal force to linear force and motion, said device comprising:
 - a first gear fixed to a first arm and having a first connecting bar rotatably attached to and abutting the inner side of said first gear;
 - a second gear in opposite rotational communication with said first gear and weighted along an outer edge and is rotatably attached to and abutting said first connecting bar; and

a first drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.

11. A device for conversion of centrifugal force to linear force and motion, said device comprising:

a first gear fixed to a first arm and having a first connecting bar rotatably attached to and abutting the inner side of said first gear and a second connecting bar rotatably attached to and abutting the outer side of said first gear;

a second gear in opposite rotational communication with said first gear and weighted along an outer edge and is rotatably attached to and abutting said first connecting bar and said second connecting bar;

a third gear in opposite rotational communication with said first gear and weighted along the outer edge which rotates about said first gear and being rotatably attached to said first connecting bar and said second connecting bar one hundred and eighty (180) degrees from said second gear;

a fourth gear in opposite rotational communication with said first gear, being ninety (90) degrees from said second gear and weighted along the outer edge, and being rotatably attached to said third connecting bar;

a fifth gear in opposite rotational communication with said first gear, being two hundred and seventy (270) degrees from said second gear and weighted along the outer edge, and being rotatably attached to said third connecting bar;

a third connecting bar rotatably attached to said first gear, said fourth gear and said fifth gear; and

a first drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.

13. A device as in claim 11, further comprising a second drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.

SECTION 101 and 112 REJECTIONS

The examiner has withdrawn the 101 and 112 rejections as per an examiner interview with the applicant.

SECTION 103 CLAIM REJECTIONS

Ryan Patent

Examiner rejects claims 1-13 as being unpatentable over Ryan ('615). Ryan discloses a vibrating device, it stays in place and vibrates. The present invention teaches directly away from this, providing a device that moves in a linear direction. As the device does not move in a direction it does not have a drive means. Also, the gears are not (1) in opposite rotational communication; and (2) weighted. As such, the Ryan patent does not render the present invention obvious and in fact teaches directly away from the present invention.

McMahon Patent

Examiner also rejects claims 1-13 as being unpatentable over McMahon ('163).

The present invention provides a first gear and a second gear, the second gear being weighted and rotating opposite to the first gear. The first drive means is in communication translates the motion of the first gear (which translates the motion of the second gear) to linear motion. The McMahon patent does not provide a drive means that translates the first gear which translates the second gear. The McMahon patent requires two drive means "Rotation of the weighted members is synchronized with rotation of the flywheel such that when the weighted member is on one side a non-rotating coordinate system, the distance between the center of gravity associated with the respective weighted member is further spaced from the flywheel center then when the weighted member is on an opposite side of the coordinate system such that an overall center of gravity of the rotating apparatus is always positioned on one side of the coordinate system. Preferably the apparatus is utilized with a mirror image thereof such that a

flywheel associated with the mirror image is in the same plane as the flywheel of the apparatus but rotates opposite with respect thereto such that angular momentum of the apparatus generally cancels the angular momentum of the mirror image apparatus and only a linear thrust results.' (Abstract, lines 9-26). This is in direct contradiction to the present invention. The McMahon patent requires pulleys, flywheels and even a motor to cancel the angular momentum and keep the apparatus balanced. This teaches directly away from the present invention,

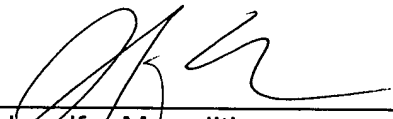
CONCLUSION

Consideration of amended claims is requested.

In the event the examiner wishes to discuss any aspect of this response, please contact the attorney at the telephone number identified below.

Respectfully submitted,

By:



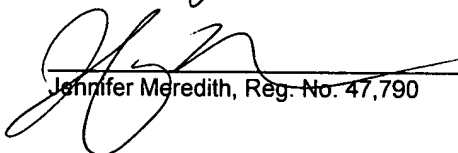
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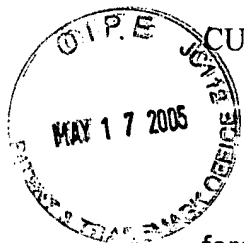
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on MAY 17, 2005



Jennifer Meredith, Reg. No. 47,790



1. (Currently Amended) A device for conversion of centrifugal force to linear force and motion, said device comprising:
 - a first gear fixed to a first arm and having a first connecting bar rotatably attached to and abutting the inner side of said first gear and a second connecting bar rotatably attached to and abutting the outer side of said first gear;
 - a second gear in opposite rotational communication with said first gear and weighted along an outer edge and is rotatably attached to and abutting said first connecting bar and said second connecting bar; and
 - a first drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.
2. (Original) A device as in claim 1, further comprising:
 - a third gear in opposite rotational communication with said first gear and weighted along the outer edge which rotates about said first gear and being rotatably attached to said first connecting bar and said second connecting bar one hundred and eighty (180) degrees from said second gear.
3. (Previously Presented) A device as in claim 1, further comprising:
 - a third gear in opposite rotational communication with said first gear and weighted along the outer edge which rotates about said first gear and being rotatably attached to said first connecting bar and said second connecting bar one hundred and eighty (180) degrees from said second gear;
 - a third connecting bar rotatably attached to said first gear;
 - a fourth gear in opposite rotational communication with said first gear, being ninety (90) degrees from said second gear and weighted along the outer edge, and being rotatably attached to said third connecting bar; and
 - a fifth gear in opposite rotational communication with said first gear, being 270 degrees from said second gear and weighted along the outer edge, and being rotatably attached to said third connecting bar.

4. (Original) A device as in claim 3, further comprising:
a fourth connecting bar rotatably attached to said first gear said first connecting bar and abutting an outer side of said third connecting bar.
5. (Original) A device as in claim 1, wherein said first gear rotates in a clockwise direction and said second gear rotates in a counterclock wise direction.
6. (Currently Amended) A device as in claim 1, further comprising a second drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.
7. (Currently Amended) A device for conversion of centrifugal force to linear force and motion, said device comprising:
a first gear fixed to a first arm and having a first connecting bar rotatably attached to and abutting the inner side of said first gear;
a second gear in opposite rotational communication with said first gear and weighted along an outer edge and is rotatably attached to and abutting said first connecting bar; and
a first drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.
8. (Previously Presented) A device as in claim 7, further comprising:
a third gear in opposite rotational communication with said first gear and weighted along the outer edge which rotates about said first gear and being rotatably attached to said first connecting bar one hundred and eighty (180) degrees from said second gear.
9. (Original) A device as in claim 7, further comprising:

a third gear in opposite rotational communication with said first gear and weighted along the outer edge and being rotatably attached to said first connecting bar one hundred and eighty (180) degrees from said second gear;

a fourth gear in opposite rotational communication with said first gear and weighted along the outer edge which rotates about said first gear and is rotatably attached to said first connecting bar ninety (90) degrees from said second gear; and

a fifth gear in opposite rotational communication with said first gear and weighted along the outer edge which rotates about said first gear and being rotatably attached to said first connecting bar two hundred and seventy (270) degrees from said second gear.

10. (Original) A device as in claim 7, wherein said first gear rotates in a clockwise direction and said second gear rotates in a counterclockwise direction.

11. (Currently Amended) A device for conversion of centrifugal force to linear force and motion, said device comprising:

a first gear fixed to a first arm and having a first connecting bar rotatably attached to and abutting the inner side of said first gear and a second connecting bar rotatably attached to and abutting the outer side of said first gear;

a second gear in opposite rotational communication with said first gear and weighted along an outer edge and is rotatably attached to and abutting said first connecting bar and said second connecting bar;

a third gear in opposite rotational communication with said first gear and weighted along the outer edge which rotates about said first gear and being rotatably attached to said first connecting bar and said second connecting bar one hundred and eighty (180) degrees from said second gear;

a fourth gear in opposite rotational communication with said first gear, being ninety (90) degrees from said second gear and weighted along the outer edge, and being rotatably attached to said third connecting bar;

a fifth gear in opposite rotational communication with said first gear, being two hundred and seventy (270) degrees from said second gear and weighted along the outer edge, and being rotatably attached to said third connecting bar;

a third connecting bar rotatably attached to said first gear, said fourth gear and said fifth gear; and

a first drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.

12. (Original) A device as in claim 11, wherein said first gear rotates in a clockwise direction and said second gear rotates in a counterclock wise direction.

13. (Currently Amended) A device as in claim 11, further comprising a second drive means for translating centrifugal motion of said first gear to ~~unidirectional~~ linear motion.